JOURNAL

OF THE

BOSTON SOCIETY

OF

CIVIL ENGINEERS

VOLUME XVII

1930

CONTENTS AND INDEX

Published monthly, excepting July and August, by the Society
715 Tremont Temple, Boston, Massachusetts

Copyright, 1930, by the Boston Society of Civil Engineers.

NOTE. — This Society is not responsible for any statement made or opinion expressed in its publications.

CONTENTS

VOLUME XVII, 1930

For alphabetical index, see page vii

No. 1. JANUARY

PAGE

Recent Terminal Improvements of the Boston & Maine Railroad. *Frank C. Shepherd* 1
Discussion by *C. Frank Allen, John B. Babcock, 3d, Lewis E. Moore, J. Parker Snow* 29
Of General Interest:
M. I. T. Offers Course in Railroad Operation. *John B. Babcock, 3d* . . 32
Proceedings of the Society 34

No. 2. FEBRUARY

The Design of Supporting Structures for Transmission Lines. *C. A. Booker, H. O. Weber* 37
Discussion by *Sidney A. Martin* and others 60
Of General Interest:
Vitruvius. *Edward Grossman* 66
Proceedings of the Society 68

No. 3. MARCH

Hydraulic and Mechanical Features of Bellows Falls Hydro-Electric Plant of the New England Power System. *Edwin A. Dow* 71
Discussion by *H. K. Barrows, E. A. Dow, W. R. Bell, Robert Brandt* . . 92
Of General Interest:
How Shall the Water Front be Developed? *Roy S. MacElwee* . . . 98
B. S. C. E. Elects First Feminine Member 101
Bindings of Journals 101
Proceedings of the Society 101

No. 4. APRIL

PAGE

Some Changes since Boston was Settled Three Hundred Years Ago. Address at the Annual Meeting. *Frank E. Winsor* 103
Fire Protection Engineering as Applied to Municipalities. *Kenneth F. Akers* . 109
Discussion by *M. McClintock, E. C. Hultman, P. Bugbee, I. Osgood, H. A. Fiske, F. Bradford, H. A. Lacount, F. H. Fay, W. A. Bryant, J. D. Pierce, K. F. Akers* 125
Of General Interest:
A Better Journal. *Edward F. Cameron* 135
For Uniform Building Codes in New England 137
Memoirs:
John R. Rablin 137
Richard Augustus Hale 139
Proceedings of the Society 140
Book Review:
"Sewerage and Sewage Disposal." *Leonard Metcalf* and *Harrison P. Eddy*, reviewed by *Robert Spurr Weston* 144
Annual Reports 146

No. 5. MAY

Stream-Flow Data — Its Collection and Use. *H. B. Kinnison* . . . 171
Discussion by *Prof. H. K. Barrows, Howard M. Turner, Edward A. Graustein, Truman H. Safford* 242
Of General Interest:
Awarded to the Lowest Bidder. *Edward Grossman* 249
Proceedings of the Society 252
Book Reviews:
"Le Port de New York dans son Rôle Économique." *Gaston Eyskens*, reviewed by *J. Stuart Crandall* 254
"Flood Flows — A Study of Frequencies and Magnitudes." *Allen Hazen*, reviewed by *H. K. Barrows* 255

No. 6. JUNE

Engineering and the Industries of Japan. *Charles T. Main* 257
Of General Interest:
The Charlestown Water Works (Mystic System), 1865. *Charles W. Sherman* 280
Proceedings of the Society 281

No. 7. SEPTEMBER

Report of the Committee on Floods. *Arthur T. Safford, Chairman* . . . 285
Of General Interest:
Lake Champlain Bridge Prize Award 465
Proceedings of the Society 465

No. 8. OCTOBER

PAGE
Exposed Surfaces of Concrete and their Protection. *Angus B. MacMillan* . 467
Ready-Mixed Concrete. *Miles N. Clair* 474
Of General Interest:
The Port of Hamburg. *Frederic H. Fay* 481
Proceedings of the Society 490

No. 9. NOVEMBER

Design of Wind Bracing. *Edward Smulski.* (Read by *Edward H. Cameron*) . 491
Discussion by *Waldo F. Pike, Lewis E. Moore, W. W. Bigelow, Edward A. Varney, Prof. Frederic N. Weaver, L. R. Hersum, S. C. Jemian, Prof. Lewis J. Johnson* 524
Of General Interest:
American Society of Civil Engineers' Prize Award 538
Proceedings of the Society 539

No. 10. DECEMBER

The Angular Rotation Method for the Analysis of Multiple Span Frames. *R. A. Freeman* and *A. S. Gelman* 543
Of General Interest:
Examples of Design for Wind Bracing in Tall Buildings. *S. C. Jemian* . 563
Committees that Do not "Committ." By a Committeeman . . . 566
Low Water Conditions in the New England District. *H. B. Kinnison* . 567
Dinner in Honor of X. Henry Goodnough 572
Proceedings of the Society 574